

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

$Q(\beta^-)=3160$ 40; $S(n)=6710$ 80; $S(p)=7870$ SY; $Q(\alpha)=-830$ SY 2017Wa10

$\Delta S(p)=200$ (syst), $\Delta Q(\alpha)=200$ (2017Wa10).

^{193}Re was produced by fragmentation of a ^{197}Au beam (E=187 GeV) (1999Be63), and a ^{208}Pb beam (E=208 GeV) (2005Ca02) on beryllium targets. ^{193}Re was identified with the GSI Fragment Separator.

 ^{193}Re LevelsCross Reference (XREF) Flags

A $^9\text{Be}(^{208}\text{Pb}, X\gamma)$

E(level)	J^π [†]	$T_{1/2}$	XREF	Comments
0+x	(5/2 ⁺)		A	
146.1+x 3	(9/2 ⁻)	69 μs 8	A	$T_{1/2}$: From ($^{208}\text{Pb}, X\gamma$).

[†] Proposed in 2011St21, based on systematics of $^{187,189}\text{Re}$ g.s., low lying 9/2⁻ state, and BCS calculations.

 $\gamma(^{193}\text{Re})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α^\dagger	Comments
146.1+x	(9/2 ⁻)	146.1 3	100	0+x	(5/2 ⁺)	[M2]	11.42 19	B(M2)(W.u.)=0.0163 20

[†] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level

